

Title (en)  
Multi-speed planetary transmission having a clutched input and one stationary member

Title (de)  
Mehrgangsgetriebe mit Eingangskupplung und stationarem Element

Title (fr)  
Transmission à plusieurs rapports avec entrée débrayable et élément stationnaire

Publication  
**EP 1416194 B1 20100414 (EN)**

Application  
**EP 03022742 A 20031009**

Priority  
US 28407102 A 20021030

Abstract (en)  
[origin: EP1416194A2] A family of transmissions having a plurality of family members each having three planetary gearsets (20,30,40) and six torque-transmitting mechanisms. The planetary gearsets (20,30,40) and the torque-transmitting mechanisms are interconnected such that at least seven forward speed ratios and one reverse speed ratio can be established within the three planetary gearsets (20,30,40) and transmitted between an input shaft (17) and an output shaft (19), by selectively engaging the torque transmitting mechanisms in combinations of four. <IMAGE>  
[origin: EP1416194A2] The power transmission group has a planetary gear arrangement (18) with three planetary gearsets (20,30,40) continuously interconnected to one another. Six torque transmitting mechanisms (50,53,54,56,58,60) are selectively engaged in combinations of four to establish seven forward speed ratios and one reverse speed ratio within the planetary gearsets for transmission between the input and output shafts (19).

IPC 8 full level  
**F16H 3/66** (2006.01)

CPC (source: EP US)  
**F16H 3/66** (2013.01 - EP US); **F16H 3/666** (2013.01 - EP US); **F16H 2200/0056** (2013.01 - EP US); **F16H 2200/006** (2013.01 - EP US); **F16H 2200/201** (2013.01 - EP US); **F16H 2200/2046** (2013.01 - EP US); **F16H 2200/2097** (2013.01 - EP US)

Cited by  
US8083641B2; US7957869B2; US8162796B2; WO2007113058A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 1416194 A2 20040506; EP 1416194 A3 20050706; EP 1416194 B1 20100414**; DE 60332079 D1 20100527; US 2004087410 A1 20040506; US 6743147 B2 20040601

DOCDB simple family (application)  
**EP 03022742 A 20031009**; DE 60332079 T 20031009; US 28407102 A 20021030